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Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-26g/CEMENT/2020-21

Date: 03.02.2021

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Technical Manager (West),** KRIDL, Bangalore.
*** Name of Work**	:	Construction of CC roads and other works at Shetthyhalli colony balance roads in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/DD/WO/594/2019-20 Date: 18.03.2020
*** Sample ID**	:	Cement
Sample Received on	:	01.02.2021
Period of Testing	:	01.02.2021 to 03.02.2021
Report Issue Date	:	03.02.2021

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	Standard Consistency	IS-4031 (Part -4) : 1988 (RA-2019)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	190 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	380 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) : 1988 (RA-2019)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-26g/SAND-Gradation/2020-21 03.02.2021

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Technical Manager (West),** KRIDL, Bangalore.
*** Name of Work**	:	Construction of CC roads and other works at Shetthyhalli colony balance roads in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
***Reference**	:	BBMP/EE/DD/WO/594/2019-20 Date: 18.03.2020
***Sample ID**	:	Sand For Pointing
Test Method As Per	:	IS - 1542 : 1992 (RA-2019)
Sample Received on	:	01.02.2021
Date of Testing	:	03.02.2021
Report Issue Date	:	03.02.2021

Total Wt. of Aggregates in gms **1000**

Is Sieved Size in mm	Cumulative Weight Passing in %	Specification Limits as per IS : 1542 - 1992 (RA-2019)
10	100	100
4.75	99.00	95-100
2.36	97.90	95-100
1.18	96.00	90-100
600 Micron	90.80	80-100
300 Micron	48.30	20-65
150 Micron	11.80	0-15

* Information is furnished by the Customer/Representative

Remarks : This tested sample satisfies requirement.

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Job No.: CTCE/BBMP/KRIDL/W.No.12/WMM/Gradation/2020-21 22.02.2021

TEST REPORT ON GRADATION OF WET MIX MACADAM

* **Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* **Agency**	:	**Technical Manager (West),** KRIDL, Bangalore.
* **Name of Work**	:	Construction of CC roads and other works at Shetthyhalli colony balance roads in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* **Reference**	:	BBMP/EE/DD/WO/594/2019-20 Date: 18.03.2020
Sample ID	:	Wet Mix Macadam
Test Method as per	:	IS - 2386 (part-1) : 1963 (RA-2016)
Date of Testing	:	22.02.2021
Report Issue Date	:	22.02.2021

Oven Dry Wt (gm): **5000**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits As per Morth Table 400-13
53	0	0	0	100	100
45	155	155	3.1	96.9	95-100
22.4	1210	1365	27.30	72.70	60-80
11.2	1450	2815	56.30	43.70	40-60
4.75	665	3480	69.60	30.40	25-40
2.36	650	4130	82.60	17.40	15-30
0.600	300	4430	88.60	11.40	8-22
0.075	395	4825	96.50	3.50	0-5

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Job No.: CTCE/BBMP/KRIDL/W.No.12/WMM/AIV/2019-20 22.02.2021

TEST REPORT ON IMPACT VALUE OF AGGREGATE

* **Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* **Agency**	:	**Technical Manager (West),** KRIDL, Bangalore.
* **Name of Work**	:	Construction of CC roads and other works at Shetthyhalli colony balance roads in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* **Reference**	:	BBMP/EE/DD/WO/594/2019-20 Date: 18.03.2020
* **Sample ID**	:	Wet Mix Macadam
Test Method as per	:	IS - 2386(Part -4) : 1963 (RA-2016)
Date of Testing	:	22.02.2021
Report Issue Date	:	22.02.2021

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	383	384	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	82	84	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	301	300	
4	Aggregate Impact value = percent fines 100* (W2/W1)%	21.41	21.88	21.64

*Information is furnished by the Customer/Representative.

Comments:

→ Maximum allowable Aggregate Impact value for Wet Mix Macadam is 30%

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

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Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-26g/Cube/2020-21 12.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Construction of CC roads and other works at Shetthyhalli colony balance roads in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/594/2019-20 Date: 18.03.2020
* Sample ID	:	Dry Lean Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	Dry Lean Concrete
Compressive Strength as on	:	7^{th} day
Sample Received on	:	12.03.2021
Report Issue Date	:	12.03.2021

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.03.2021	12.03.2021	8.102	254.8	11.32
2	05.03.2021	12.03.2021	8.203	261.2	11.61
3	05.03.2021	12.03.2021	8.302	278.3	12.37

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Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-26g/Cube/2020-21 15.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Construction of CC roads and other works at Shetthyhalli colony balance roads in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/594/2019-20 Date: 18.03.2020
* Sample ID	:	Road Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{30}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	15.03.2021
Report Issue Date	:	15.03.2021

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.03.2021	15.03.2021	8.155	536.9	23.86
2	08.03.2021	15.03.2021	8.308	512.3	22.77
3	08.03.2021	15.03.2021	8.280	504.8	22.44

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* Reference	:	BBMP/EE/DD/WO/594/2019-20 Date: 18.03.2020
* Sample ID	:	Road Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{30}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	16.03.2021
Report Issue Date	:	16.03.2021

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.03.2021	16.03.2021	8.399	504.5	22.42
2	09.03.2021	16.03.2021	8.415	513.2	22.81
3	09.03.2021	16.03.2021	8.339	532.8	23.68

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* Reference	:	BBMP/EE/DD/WO/594/2019-20 Date: 18.03.2020
* Sample ID	:	Road Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{30}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	16.03.2021
Report Issue Date	:	16.03.2021

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.03.2021	16.03.2021	8.133	504.6	22.43
2	09.03.2021	16.03.2021	8.330	512.6	22.78
3	09.03.2021	16.03.2021	8.218	538.6	23.94

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